

## Department of Energy Office of Legacy Management

February 27, 2007

Mr. James A. Saric, Remedial Project Manager United States Environmental Protection Agency Region V-SRF-5J 77 West Jackson Boulevard Chicago, Illinois 60604-3590

Mr. Thomas Schneider, Project Manager Ohio Environmental Protection Agency Southwest District Office 401 East Fifth Street Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

SUBJECT: Transmittal of the December 18, 2006 Inspection Checklist for the On-Site Disposal Facility

References: 1) Geosyntec Consultants, 2006, "Memorandum, Response to OEPA's Concerns About Cell 8 Fernald Closure Project, Fernald, Ohio

2) U.S. Department of Energy (DOE, 2006, "Comprehensive Legacy Management and Institutional Controls Plan," Final, Fluor Fernald, DOE, Fernald Area Office, Cincinnati, OH, June

The purpose of this letter is to transmit the completed checklist for the December 18, 2006 inspection of the On-Site Disposal Facility (OSDF) for your review. Photographs of the disposal facility and the surrounding area were taken and are included with this report. The inspection was conducted with participation from the Ohio Environmental Protection Agency (OEPA), Tetra Tech, the S. M. Stoller Corporation, and Fluor Fernald, Inc. The inspection was the 14th conducted on the Cell 1 Cap, the 10th conducted on the Cell 2 Cap, the 6th conducted on the Cell 3 Cap, the 5th conducted on the Cell 4 Cap, the 5th conducted on the Cell 5 Cap, the 3rd conducted on the Cell 6 Cap and the first complete inspection for the Cell 7 and 8 caps.

In general, establishment of the vegetative cover is progressing well. Cells 1 through 6 had full stands of grass, and previously-repaired areas have recovered nicely. Erosion is primarily limited to the west side of Cells 7 and 8, where seeding late in the fall did not yet permit an adequate stand of grass to be established. Several bare areas are present, and small mammals have burrowed holes

19901 Germantown Road, Germantown, MD 20874		2597 B 3/4 Road, Grand Junction, CO 81503
3610 Collins Ferry Road, P.O. Box 880, Morgantown, WV 26507		626 Cochrans Mill Road, P.O. Box 10940, Pittsburgh, PA 15236
1000 Independence Ave., S.W., Washington, DC 20585		12101 Airport Way, Unit C, Broomfield, CO 80021-2583
11003 Hamilton-Cleves Hwy., Harrison, OH 45030	X	955 Mound Road, Miamisburg, OH
232 Energy Way, N. Las Vegas, NV 89030		

Mr. James A. Saric Mr. Thomas Schneider Page 2

in all of the cell caps. The attached inspection checklist details where repairs are needed. As the checklist shows, repairs that require soil work and reseeding will be addressed in the spring.

Some concern was raised regarding the uneven surface that was observed along the south side of Cell 8. The uneven surface is a result of the seedbed preparation process, when a soil stabilizer is used to break up compacted soil. Tire tracks from the stabilizer left a series of depressions at a 45-degree angle to the slope. The concern was that these depressions may accelerate erosion by concentrating flow. After an evaluation of the slope was performed by Geosyntec Consultants, the Office of Legacy Management decided to continue monitoring for erosion and make any repairs that may be necessary in the spring (Reference 1). As stated above, some erosion repair is already needed for the west slope of Cells 7 and 8.

The next OSDF Cell Cap inspection is scheduled for March 2007. During the same week, the first quarterly Fernald Site inspection will be conducted, weather permitting. In addition to the quarterly OSDF inspections, a quarterly Fernald Site inspection will be conducted for a period of one year as directed by the Comprehensive Legacy Management and Institutional Controls Plan, June 2006 (Reference 2).

If you have any questions regarding this matter, please call me at 513-648-3148.

Sincerely,

ane Powell,

Fernald Site Manager

DOE-LM-20.1

#### Enclosures

cc w/enclosure:

M. Cullerton, Tetra Tech

M. Miller, Stoller

M. Murphy, USEPA-V, A-18J

G. Jablonowski, USEPA-V, SR-6J

T. Schneider, OEPA (3 copies of enclosure)

S. Helmer, ODH

Project Record File FER030.1(A) (thru **①**. Metzler)

cc w/o enclosure:

J. Homer, Stoller

F. Johnston, Stoller

L. McHenry, Stoller

Date of Inspection: December 18, 2006 Weather Conditions: Cloudy, cool, misty

Time of Inspection: 1:00 PM Temperature: 59 °F Wind Speed (Miles per hour) and Direction:

Inspection By: SM Stoller, Fluor Fernald, Tetra Tech, OEPA,

Transect Direction\*\*: North/South

1. Entrance Road/Monitoring Access Road  1. Verify the trance gate, lock and signage are intact and in good working order.  18. Verify that access gates are locked to prevent unauthorized entry.  10. Visually observe condition of access road for signs of erosion, ruts, standing water, proper drainage and excess vegetation.  10. Verify that access road surfacing, cross slope, reflectors, and signage are intact and in good condition.  2. Chain Link Fence and Signage  2. Walk length of fence and ensure fence, posts, etc. are intact and in good condition. Ensure that gates are close-dilocked to prevent unauthorized entry.  2. Everify that the proper signage is intact and in good condition at he following locations: Restricted Access; Certified Area; and Restored Area. (Some signs not installed at this time).  2. C. Check for vegetation growing over fences, barricades, signs and any noxious vegetation per State of Ohio Regulations (statached) and invasive plants growing on or around OSDF perimeter.  3. Surface Water Management  3. C. Hoek integrity of drainage channels around OSDF for exceed 6 inches.  3. Surface Water Management  3. C. Nesually check the integrity of rip-rap in drainage channels for signs of detendration or removal of rock.  3. Surface Water Management and in rip-rap  U U U A A A A A A A A A A A A A A A A	Inspection Component		Con	ditio			n Cel	Сар	)	Comments	Addressed
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	structures, and Culverts.								^		

Date of Inspection: December 18, 2006 Weather Conditions: Cloudy, cool, misty

Time of Inspection: 1:00 PM Temperature: 59 °F Wind Speed (Miles per hour) and Direction:

Inspection By: SM Stoller, Fluor Fernald, Tetra Tech, OEPA,

Transect Direction\*\*: North/South

\*A = Satisfactory \*U = Unsatisfactory (comments required) \*N = Not inspected

\*\* Transect Direction should alternate each inspection (North to South & East to West)

Inspection Component	Condition for Each Cell Cap A* or U*								Comments	Addressed
	1	2	3	4	5	6	7	8		
4. (A) Final Cover										
4A. Walk cover and side slopes in 25-ft (+/- 5-ft) transects and visually inspect for the following items:**										
4A1. Inspect erosion rills/channels. Flag any observable rills/channels greater than 3 inches wide and 6 inches deep or excessive erosion.	А	А	А	А	А	А	Α	U	Cell 8, west, 6:1, several large rills/holes need to be filled in with soil and re-seeded.	Awaiting better soil conditions.
4A2. Any observable depressions, settlement/subsidence, slumping or desiccation cracks. Flag any observable depressions, slumps, settlement/subsidence or dessication cracks.	А	А	А	А	А	А	А	U	Cell 8, west, 6:1, depressions created during construction activities need to be filled in with soil or leveled out and reseeded.	Awaiting better soil conditions.
4A3. Any ponding or standing water. Flag any standing water.	Α	Α	Α	Α	Α	Α	Α	Α		
4A4. Evidence of burrowing animals or other bio-intrusion. Flag any observable evidence of bio-intrusion.	U	U	U	U	U	U	Α	Α	Cell 4, west, 6:1 and top, large ground hog openings need filled in and reseeded.  The presence of moles or similar burrowing animals is very evident over most of the cells. Large mounds are present on caps 1 thru 6.	Awaiting better soil conditions.
4A5. Evidence of vehicle traffic on the OSDF cap.	A	A	A	A	A	A	U	U	Cell 7, west, 6:1, tractor tire tracks from driving on cell cap immediately following cover completion (2 locations).  Cell 8, west, damage from vehicle tires during construction.	Awaiting better soil conditions.
4B. Walk toe of slope and visually inspect for the following:										
4B1. Evidence of settlement/subsidence, erosion, and seepage. Flag any observable evidence of settlement/subsidence, erosion, or seepage.	Α	А	А	А	А	А	Α	А		
4B2. A 20-ft corridor at the toe for the presence of woody vegetation, siltation, and/or biointrusion. Flag any woody vegetation, siltation, and/or biointrusion.	Α	А	А	А	А	А	Α	Α		

Date of Inspection: December 18, 2006 Weather Conditions: Cloudy, cool, misty

Temperature: 59 °F Wind Speed (Miles per hour) and Direction:

Inspection By: SM Stoller, Fluor Fernald, Tetra Tech, OEPA,

Time of Inspection: 1:00 PM

Transect Direction\*\*: North/South

Inspection Component		Condition for Each Cell Cap  A* or U*							Comments	Addressed
	1	2	3	4	5	6	7	8		
4B3. Condition of rip-rap. Flag any observable										
abnormalities.	Α	Α	Α	Α	Α	Α	Α	Α		
4C. Inspect toe at final cover for evidence of freezing or										
siltation. Flag any observable abnormalities.	Α	Α	Α	Α	Α	Α	Α	Α		
4D. Walk cover and side slopes in 25-ft (+/- 5-ft) transects										
and visually check vegetative cover for the following:										
4D1. General health of grass cover and signs of stressed										
or dead grass should be noted.	Α	Α	Α	Α	Α	Α	Α	Α		
4D2. Adequate grass coverage/density with no bares									Cell 1, north, bare area needs seeded.	Awaiting
spots greater than 3-ft in diameter. Flag any bare spots									Cell 2, top, bare area needs seeded.	better soil
greater than 3-ft in diameter. Any areas with questionable	U	U	U	Α	Α	Α	U	U	Cell 3, east, 6:1, 2 areas need seeded.	conditions.
vegetative coverage will be sampled for percent cover and									Cell 7, east, 6:1, areas needs seeded.	
type of vegetation using meter-square quadrats.									Cell 8, east, 6:1 areas need additional seed.	
4D3. Inspect the cover for the presence of woody									On several cells, dormant thistle containing	Partially
vegetation (i.e., trees or shrubs) or noxious/invasive plants									seeds need to be removed by hand. In	addressed.
growing. Flag any woody and/or noxious/invasive	Α	U	Α	U	U	Α	Α	Α	some places rosettes are sprouting.	Will
vegetation for removal/herbicide.										complete
										this spring.
4E. Visually inspect locations where Cell 1 monitoring									East side, 6:1, one area needs repair.	Awaiting
equipment and infrastructure has been removed. Check									Additional soil and seed is necessary.	better soil
for settling of fill material. Check for adequate vegetative	U									conditions.
cover.										
5. Groundwater Monitoring Wells										_
5A. Visually inspect all groundwater wells for damage and										
integrity of well infrastructure.	Α	Α	Α	Α	Α	Α	Α	Α		
5A1. Groundwater Monitoring Wells	Α	Α	Α	Α	Α	Α	Α	Α		
5A2. Horizontal Monitoring Wells	Α	Α	Α	Α	Α	Α	Α	Α		

<sup>\*</sup>A = Satisfactory \*U = Unsatisfactory (comments required) \*N = Not inspected

<sup>\*\*</sup> Transect Direction should alternate each inspection (North to South & East to West)

Date of Inspection: December 18, 2006 Weather Conditions: Cloudy, cool, misty

Time of Inspection: 1:00 PM Temperature: 59 °F Wind Speed (Miles per hour) and Direction:

Inspection By: SM Stoller, Fluor Fernald, Tetra Tech, OEPA,

Transect Direction\*\*: North/South

Inspection Component		Con	ditio		Each	Cell	Сар	1	Comments	Addressed
	1	2	3	4	5	6	7	8		
6. Miscellaneous										
6A. Visually inspect the integrity of survey benchmarks.										
Flag/note any abnormalities.	Α	Α	Α	Α	Α	Α	Α	Α		
6B. Visually inspect the integrity of the perched water										
interceptor trench (once installed). Note any	Α	Α	Α	Α	Α	Α	Α	Α		
abnormalities.										
6C. Visually observe/inspect the corridor 50-ft outside of										
OSDF for signs/evidence of land use changes,										
settlement/subsidence, erosion, standing water,	Α	Α	Α	Α	Α	Α	Α	Α		
encroachment, livestock grazing or noxious vegetation.										
Note any changes/abnormalities.										
6D. Visually inspect all infrastructure for any act of			_	_						
vandalism.	Α	Α	Α	Α	Α	Α	Α	Α		
6E. List any other observations not listed above.	U	U	Α	U	Α	U	Α	U	Cell 1, rock pile and buried plastic.	Jan. 2007
									Cell 2, east, large piece of concrete needs	Need Gator
									removed. Soil and seed are needed to	to haul
									repair hole.	concrete
									Cell 4, east and top-west, piles of rocks.	Jan. 2007
									Cell 6, west and top, piles of rocks.	Jan. 2007
									Cell 8, west side needs staples in several	Jan. 2007
									areas.	
									Cell 8, east, rock pile.	Jan. 2007

<sup>\*</sup>A = Satisfactory \*U = Unsatisfactory (comments required) \*N = Not inspected

#### REFERENCE SOURCES FOR POST CLOSURE OSDF INSPECTIONS

- 1. Post-Closure Care and Inspection Plan, On-Site Disposal Facility
- 2. On-Site Disposal Facility Technical Specification #'s 02831, 02270, 02271, and 02930
- 3. On-Site Disposal Facility Drawing #'s 90X-5500-E-00851 and 90-5500-G-00577
- 4. Construction Drawing # 90X-6000-G-00073
- 5. Phase III Drawing #'s 90X-6000-G-00302 and 90X-6000-G-00310

<sup>\*\*</sup> Transect Direction should alternate each inspection (North to South & East to West)

# On-Site Disposal Facility Inspection Report

December 2006













East Face Cell 1



**West Face Cell 1** 



North Face Cell 1



North Drainage (looking east)



East Face Cell 2



**West Face Cell 2** 



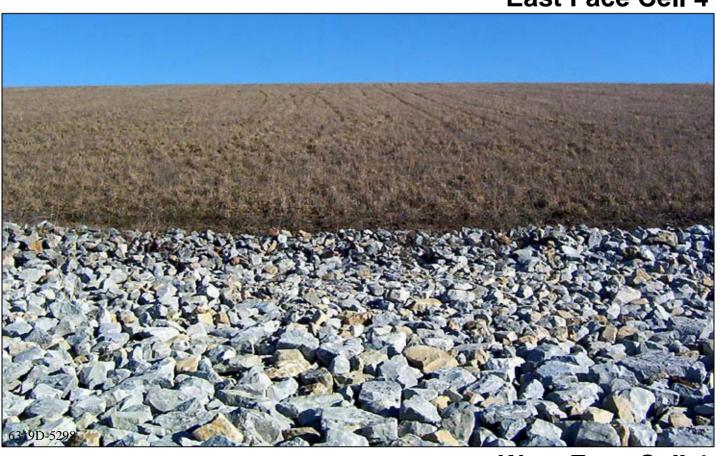
East Face Cell 3



**West Face Cell 3** 



East Face Cell 4



**West Face Cell 4** 



East Face Cell 5



**West Face Cell 5** 



East Face Cell 6



**West Face Cell 6** 



East Face Cell 7



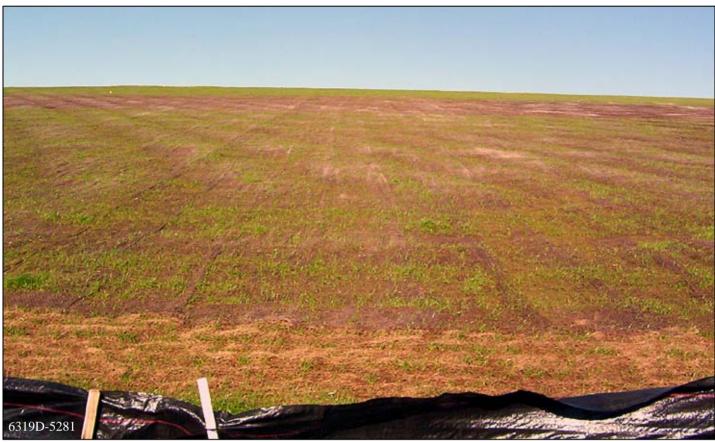
**West Face Cell 7** 



East Face Cell 8



**West Face Cell 8** 



South Face Cell 8



South Drainage (looking west)



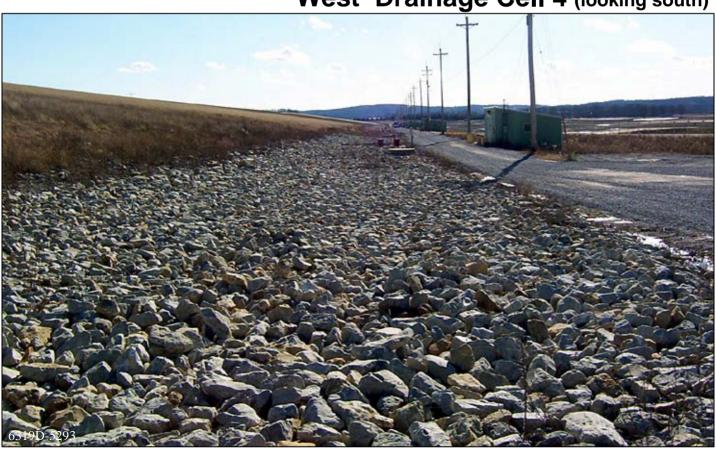
East Drainage Cell 4 (looking south)



East Drainage Cell 1 (looking south)



West Drainage Cell 4 (looking south)



West Inner Drainage Cell 1 (looking south)



West Outer Drainage Cell 1 (looking south)